

PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

ZHANG, Zhi, et al.

Divisional of App. No.09/561,910

Group Art Unit: 1616 (parent)

Confirmation No.: Unknown

Examiner: A. Pryor (parent)

Filed: May 18, 2001

For: CHEMICAL COMPOUND CONTAINING A SUPEROXIDE SCAVENGER AND AN ORGANIC NITRATE OR NITRITE MOIETY

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Amend the specification by inserting before the first line the sentence:

This is a divisional of Application No. 09/561,910 filed May 1, 2000, the disclosure of which is incorporated herein by reference.

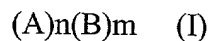
IN THE CLAIMS:

Please cancel claims 11 and 15 without prejudice or disclaimer.

Please enter the following amended claims:

1. (Amended) A compound comprising a superoxide dismutase and an organic nitrate or nitrite moiety.
2. (Amended) A compound according to claim 1, which is represented by formula (I):

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where A is a superoxide dismutase, B is an organic nitrate or nitrite moiety, and n and m are values between 1 and 8.

9. (Amended) A compound according to claim 6, wherein the superoxide dismutase remains effective in trapping superoxide upon enzymatic conversion of the organic nitrate or nitrite moiety to form nitric oxide.

10. (Amended) A compound according to claim 2, wherein the superoxide dismutase is a low molecular mass superoxide dismutase analog.

12. (Amended) A compound according to claim 2, wherein the superoxide dismutase contains one or more thiol groups.

13. (Amended) A compound according to claim 2, wherein said superoxide dismutase is linked to the organic nitrate or nitrite moiety by a linkage that is stable under physiological conditions.

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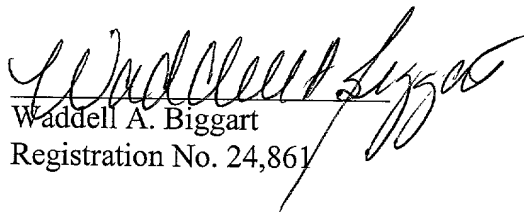
REMARKS

Claims 1-17 are pending in the application. Original claims 11 and 15 have been canceled. Claim 13 is amended to correct a typographical error. Claims 1-2, 9-10 and 12-13 have been amended to recite a compound comprising a superoxide dismutase. Basis for this amendment is found in original claim 10. Hence, Applicants believe no issues of new matter are presented.

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,

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APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows:

On page 1, after the Title and before the Field of Invention insert:

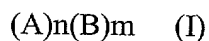
This is a divisional of Application No. 09/561,910 filed May 1, 2000, the disclosure of which is incorporated herein by reference.

IN THE CLAIMS:

Claims 11 and 15 are canceled.

The claims are amended as follows:

2. 1. (Amended) A compound comprising a superoxide ~~seavenger~~ dismutase and an organic nitrate or nitrite moiety. (Amended) A compound according to claim 1, which is represented by formula (I):



where A is a superoxide ~~seavenger~~ dismutase, B is an organic nitrate or nitrite moiety, and n and m are values between 1 and 8.

9. (Amended) A compound according to claim 6, wherein the superoxide ~~seavenger~~ dismutase remains effective in trapping superoxide upon enzymatic conversion of the organic nitrate or nitrite moiety to form nitric oxide.

10. (Amended) A compound according to claim 2, wherein the superoxide ~~seavenger~~ dismutase is a low molecular mass superoxide ~~seavenger~~ dismutase analog.

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12. (Amended) A compound according to claim 2, wherein the superoxide scavenger dismutase contains one or more thiol groups.
13. (Amended) A compound according to claim 2, wherein said superoxide scavenger dismutase is linked to the organic nitrate or nitrite moiety by a linkage that is stable S under physiological conditions.